

QUALITY EVALUATION FOR WIRELESS COMMUNICATION NETWORKS

Abstract of the Disclosure

5 Systems and methods for evaluating wireless network quality. A metric provided
by embodiments of the present invention relies on information that is relatively easy to
collect, can be very efficiently computed, and yet provides a realistic estimate of likely
wireless network performance. In one implementation, the input includes path loss data
and access point transmitter power level and frequency settings. A capacity indicator is
10 computed for each client and each access point. A data rate indicator is computed for
each client location. The traffic load is computed for each access point. Based on these
computed indicators, a bidirectional client throughput can be computed for each client
and a combined metric can be determined for the network as a whole.